

10/657,356

Atty. Docket No. P03306

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims.

Listing of Claims

1. (Currently amended) A method for manufacturing medical devices comprising:
~~incorporating into a suitable material including~~ providing a polymer composition
comprising one or more monomers or prepolymers, one or more blue light absorption
moieties compounds and one or more ultraviolet light absorption moieties, compounds,
and one or more photo initiators having absorption that can absorb light above 500 nm;
and

exposing said ~~material~~ polymer composition to visible light for less than about 4 hours.

2. (Currently amended) A method for manufacturing medical devices ~~with blue light and ultraviolet light absorption properties~~ comprising:

~~incorporating into a suitable material including~~ providing a polymer composition
comprising one or more monomers or prepolymers selected from the group consisting of
2-phenylethyl methacrylate, methacrylate-capped prepolymers of polysiloxanes and
acrylate-capped prepolymers of polysiloxanes having a suitable number of aromatic
moieties to provide the medical device with a refractive index of at least 1.42, one or
more blue light absorption moieties compounds and one or more ultraviolet light
absorption moieties, compounds, and one or more photo initiators having absorption that
can absorb light above 500 nm; and

exposing said ~~material~~ polymer composition to visible light for less than about 4 hours.

3. (Original) The method of claim 1 or 2 wherein said medical device is selected from the group consisting of contact lenses, keratoprotheses, capsular bag extension rings, corneal inlays and corneal rings.

4. (Original) The method of claim 1 or 2 wherein said medical device is an intraocular lens.

10/657,356

Atty. Docket No. P03306

5. (Original) The method of claim 1 or 2 wherein said blue light absorption moieties are one or more reactive yellow dyes.

6. (Original) The method of claim 1 or 2 wherein said blue light absorption moieties are one or more azo-based yellow dyes.

7. (Canceled)

8. (Currently amended) The method of claim 1 ~~or 2 wherein said suitable material~~ wherein the one or more monomers or prepolymers is an acrylate or methacrylate material.

9. (Canceled)

10. (Currently amended) The method of claim 1 ~~[[or 2]]~~ wherein said ~~wherein~~ said ~~suitable material~~ includes one or more ~~high refractive index~~ monomers ~~is~~ selected from the group consisting of 2-ethylphenoxy methacrylate, 2-ethylphenoxy acrylate, 2-ethylthiophenyl methacrylate, 2-ethylthiophenyl acrylate, 2-ethylaminophenyl methacrylate, 2-ethylaminophenyl acrylate, phenyl methacrylate, benzyl methacrylate, 2-phenylethyl methacrylate, 3-phenylpropyl methacrylate, 4-phenylbutyl methacrylate, 4-methylphenyl methacrylate, 4-methylbenzyl methacrylate, 2,2-methylphenylethyl methacrylate, 2,3-methylphenylethyl methacrylate, 2,4-methylphenylethyl methacrylate, 2-(4-propylphenyl)ethyl methacrylate, 2-(4-(1-methylethyl)phenyl)ethyl methacrylate, 2-(4-methoxyphenyl)ethyl methacrylate, 2-(4-cyclohexylphenyl)ethyl methacrylate, 2-(2-chlorophenyl)ethyl methacrylate, 2-(3-chlorophenyl)ethyl methacrylate, 2-(4-chlorophenyl)ethyl methacrylate, 2-(4-bromophenyl)ethyl methacrylate, 2-(3-phenylphenyl)ethyl methacrylate, 2-(4-phenylphenyl)ethyl methacrylate and 2-(4-benzylphenyl)ethyl methacrylate.

11. (Currently amended) The method of claim 1 ~~or 2 wherein said wherein said~~ ~~suitable material~~ includes the one or more ~~high refractive index~~ prepolymers ~~is~~ selected from the group consisting of methacrylate-capped prepolymers of polysiloxanes and

10/657,356

Atty. Docket No. P03306

acrylate-capped prepolymers of polysiloxanes having a suitable number of aromatic moieties to provide a prepolymer with a refractive index of at least 1.42.

12. (Currently amended) The method of claim 1 or 2 wherein said ultraviolet light absorption ~~moieties are one or more~~ compounds benzotriazole compositions compounds.

13. (Currently amended) The method of claim 1 or 2 wherein said ultraviolet light absorption ~~moieties are one or more benzotriazole compositions~~ compounds are selected from the group consisting of β -(4-benzotriazolyl-3-hydroxyphenoxy) ethyl acrylate, 4-(2-acryloxyethoxy)-2-hydroxybenzophenone, 4-methacryloxy-2-hydroxybenzophenone, 2-(2'-methacryloxy-5'-methylphenyl)benzotriazole, 2-(2'-hydroxy-5'-methacryoxyethylphenyl)-2H-benzotriazole, 2-[3'-~~tert~~-butyl-2'-hydroxy-5'-(3''-methacryloyloxypropyl)phenyl]-5-chlorobenzotriazole, 2-[3'-~~tert~~-butyl-5'-(3''-dimethylvinylsilylpropoxy)-2'-hydroxyphenyl]-5-methoxybenzotriazole and 2-[3'-~~tert~~-butyl-2'-hydroxy-5'-(3''-methacryloyloxypropoxy)phenyl]-5-chlorobenzotriazole.

14. (Currently amended) The method of claim 1 or 2 wherein said photo initiators are selected from the group consisting of ~~substituted ultraviolet photo initiators~~, conjugated ketones, triazine-yl derivatives and metal salts.

15. (Currently amended) The method of claim 1 or 2 wherein said photo initiators are ~~selected from the group consisting of~~ titanocene derivatives.

16. - 18. (Canceled)

19. (Previously presented): The method of claim 1 or 2, wherein said step of exposing is carried out for about 2 hours or less.

20. (withdrawn) A method of using the medical device produced through the method of claim 1 or 2 comprising:
implanting said medical device in an eye.

10/657,356

Atty. Docket No. P03306

21. (withdrawn) A medical device produced through the method of claim 1 or 2.
22. (withdrawn) An intraocular lens produced through the method of claim 1 or 2.
23. (New) A method for manufacturing an intraocular lens comprising:
providing a polymer composition comprising one or more monomers or prepolymers selected from the group consisting of 2-phenylethyl methacrylate, 2-ethylphenoxy methacrylate, 2-ethylphenoxy acrylate, methacrylate-capped prepolymers of polysiloxanes and acrylate-capped prepolymers of polysiloxanes having a suitable number of aromatic moieties to provide the intraocular lens with a refractive index of at least 1.42, an azo-based yellow dye and one or more ultraviolet light absorption compounds, and one or more photo initiators that can absorb light above 500 nm; and exposing said polymer composition to visible light for less than about 4 hours.
24. (New) The method of claim 23 wherein said ultraviolet light absorption compounds are selected from the group consisting of β -(4-benzotriazolyl-3-hydroxyphenoxy) ethyl acrylate, 4-(2-acryloxyethoxy)-2-hydroxybenzophenone, 4-methacryloxy-2-hydroxybenzophenone, 2-(2'-methacryloxy-5'-methylphenyl)benzotriazole, 2-(2'-hydroxy-5'-methacryloxyethylphenyl)-2H-benzotriazole, 2-[3'-tert-butyl-2'-hydroxy-5'-(3"-methacryloyloxypropyl)phenyl]-5-chlorobenzotriazole, 2-[3'-tert-butyl-5'-(3"-dimethylvinylsilylpropoxy)-2'-hydroxyphenyl]-5-methoxybenzotriazole and 2-[3'-tert-butyl-2'-hydroxy-5'-(3"-methacryloyloxypropoxy)phenyl]-5-chlorobenzotriazole.
25. (New) The method of claim 23 wherein said photo initiators are selected from the group consisting of conjugated ketones, triazine-yl derivatives and a fluorinated diphenyl titanocene derivative.
26. (New) The method of claim 23 wherein said photo initiator is a fluorinated diphenyl titanocene derivative.